Application No.	Applicant(s)	
10/029,021	AHMAD ET AL.	
Examiner	Art Unit	
Saif A. Alhija	2128	
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	Examiner  Saif A. Alhija  Pars on the cover sheet (OR REMAINS) CLOSE or other appropriate conditions and MPEP 1308.  Index 35 U.S.C. § 119(a) Inde	Examiner  Saif A. Alhija  Pars on the cover sheet with the correspondence addr. (OR REMAINS) CLOSED in this application. If not include or other appropriate communication will be mailed in due GHTS. This application is subject to withdrawal from issuence and MPEP 1308.  Inder 35 U.S.C. § 119(a)-(d) or (f).  Pebeen received.  Pebeen received in Application No  Cuments have been received in this national stage application of this communication to file a reply complying with the reflect of this application.  Inder 35 U.S.C. § 119(a)-(d) or (f).  Pebeen received in Application No  Cuments have been received in this national stage application of this communication to file a reply complying with the reflect of this application.  Index of this communication to file a reply complying with the reflect of this application.  Index of this communication to file a reply complying with the reflect of this application.  Index of this communication to file a reply complying with the reflect of this application is deficient.  Index of this communication to file a reply complying with the reflect of this application is deficient.  Index of this communication to file a reply complying with the reflect of this application is deficient.  Index of this communication to file a reply complying with the reflect of this application is deficient.  Index of this communication to file a reply complying with the reflect of this application is deficient.  Index of this communication to file a reply complying with the reflect of this application is deficient.  Index of this communication to file a reply complying with the reflect of this application is deficient.  Index of this communication to file a reply complying with the reflect of this application is deficient.  Index of this communication to file a reply complying with the reflect of this application is deficient.

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## **DETAILED ACTION**

Claims 1-20 have been presented for examination.

## Examiners Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas E. Donohue on 14 March 2006.

The application has been amended as follows:

- i) Delete [twisted] in the last limitation of claim 1 and insert -- twisting-- in its place.
  - ii) Delete [.] at the end of claim 1 and insert --;--.
  - iii) Insert following the last ";" of claim 1 the following
    - -- an electroactive assembly in communication with said flexible polymer steering column shaft; and
    - a steer-by-wire control module in electronic communication with said electroactive assembly. --
  - iv) Delete claim 3 in its entirety.
  - v) Delete [.] at the end of claim 9 and insert --;--.
  - vi) Insert following the last ";" of claim 9 the following
    - -- steering mechanisms; and
    - a steer-by-wire control module in electronic communication with said electroactive assembly and controlling said steering mechanisms in response to signals from said electroactive assembly. --

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vii) Delete claim 10 in its entirety.

The following is an examiner's statement of reasons for allowance: The claims are novel and nonobvious over the prior art of record for the following reasons. The prior art of record does not disclose or suggest the following features in combination as arranged in the claims: utilizing a flexible steering column shaft having a *fixed end* and a free rotational end that is *axially elastically twisted* in conjunction with a *steer-by-wire* control module in communication with said shaft.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saif A. Alhija whose telephone number is (571) 272-8635. The examiner can normally be reached on M-F, 11:00-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on (571) 272-2279. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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March 15, 2006

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